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TO: Pamela Grubaugh-Littig, Permit Supervisor

FROM: Thomas Munson, Senior Reclamation Hydrologist *TM*

RE: Sediment Pond Sizing, Division Order ACT/007/006-DO-91A, Star Point Mine, Cyprus Plateau Mining Company, ACT/007/006, Folder#2, Carbon County, Utah

Synopsis

On March 30, 1992 The received a response from Cyprus Plateau Mining Company regarding the sizing of their sediment ponds to meet the requirements of the new rules. This memo reviews this submittal.

Analysis

The ponds comply with the requirements of the August 23, 1991 R645- Coal Mining Rules for Rule R645-742.224 spelled out below.

- 742.224. In lieu of meeting the requirements of R645-301-742.223.1 and 742.223.2 the Division may approve a sedimentation pond that relies primarily on storage to control the runoff from the design precipitation event when it is demonstrated by the operator and certified by a qualified registered professional engineer or qualified registered professional land surveyor in accordance with R645-301-512.100 that the sedimentation pond will safely control the design precipitation event. The water will be removed from the pond in accordance with current, prudent, engineering practices and any sediment pond so used will not be located where failure would be expected to cause loss of life or serious property damage.
- 742.225. An exception to the sediment pond location guidance in R645-301-742.224 may be allowed:

742.225.1. In the case of a sedimentation pond meeting the size or other criteria of 30 CFR 77.216(a), if the pond is designed to control the precipitation of the probable maximum precipitation of a 6 hour event or greater event if specified by the Division; or (30 CFR 816.46(c)(2)(ii)(A))

742.225.2. In the case of a sedimentation pond not meeting the size or other criteria of 30 CFR 77.216(a), if the pond is designed to control the precipitation of a 100 year 6 hour event or greater event if demonstrated to be needed by the Division.

As shown in the March 30, 1992 submittal all the Plateau Ponds can retain the 100-yr, 6-hr runoff event without discharge, therefore meeting the requirements of the exemption.

#### Recommendation

The ponds be considered adequate to meet the requirements of the Rule R645-301-742.224 and 742.225.2 and when the operator submits engineer certified copies of these designs for inclusion into the PAP, then the Division will consider the spillway exemption approved.